0590

OIE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/966,561

DATE: 01/14/2002 TIME: 10:29:11

	1	<110>	APPLICANT: University of Southern California													
	2		Tiller, Carol A.													
	3		ong, Zhao Hui													
	4		hang, Yan													
	5	<120>	TITLE OF INVENTION: APOPTOSIS INHIBITION													
			ILE REFERENCE: 13761-724													
	7	<140>	URRENT APPLICATION NUMBER: US/09/966,561													
	8	<141>	URRENT FILING DATE: 2001-09-27													
	9	<150>	RIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/419,694													
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			OFTWARE: FastSEQ for Windows Version 3.0													
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	_		ENGTH: 2836													
			JERG 1D NO: 1 JENGTH: 2836 TYPE: DNA DRGANISM: Homo sapiens ENTERED													
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145			_	_	_		-		_		_	_						480
Second S		-	Gln	Ser	Gln	Gly		GIY	Ser	GIŸ	Asp		Tyr	Arg	Pro	Lys		•
Pro Thr Thr Leu Asn Leu Phe Pro Gln Val Pro Arg Ser Gln Asp Thr Set												_						500
165				_													_	528
55 ctg aat aat aat tet etg gge aaa aag oac agt tgg cag gat egg gtg 576 56 Leu Asn Asn Asn Sen Ser Leu Gly Lys Lys His Ser Trp Gln Asp Arg Val 180 180 185 190 58 tet ega tea tea tec tea coc etg aag aca ggg gag cag aca ca ca ca ceg cat 624 624 624 59 Ser Arg Ser Ser Ser Pro Leu Lys Thr Gly Glu Gln Thr Pro Pro His 195 200 205 61 gaa cac atc tgc etg etg agg gag gag etg eec eec ee ca cac gac agg gg eec ge 62 672 612 62 Glu His Ile Cys Leu Ser Glu Glu Leu Pro Pro Gln Ser Gly Pro Ala 215 220 62 614 970 970 970 Ala 82 672 672 672 672 672 673 672 672 672 673 672 672 673 770		Pro	Thr	Thr	Leu		Leu	Phe	Pro	Gln		Pro	Arg	Ser	GIn		Thr	
See Leu Ash Ash Ash See Leu Gly Lys Lys His See Trp Gln Ash Arg Val See See Tro 180 See Arg See See See Pro Leu Lys Thr Gly Glu Gln Thr Pro Pro Pro His 190 See Arg See See Pro Leu Lys Thr Gly Glu Gln Thr Pro Pro Pro His 190 See Arg Gree Gr											-		_					==.
58																		576
tet ega tea tee tea cee etg aag aca ggg gag eag aca eca eeg eat 624 59		Leu	Asn	Asn		Ser	Leu	Gly	Lys		His	Ser	Trp	Gln		Arg	Val	
Ser Arg Ser Ser Ser Pro Leu Lys Thr Gly Glu Gln Thr Pro Pro His 200 205 205 205 205 205 205 205 205 205																		
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Pro Thr Thr Asp Arg Gly Thr Ser Thr Asp Ser Pro Cys Arg Arg Ser 240	63																	
225 230 235 240 246 677 686 686 716 Ala 716 Ala 716 Ala 716 Ala 716 Ala 716 717 Ala Ala 716 Ala 716 Ala 717 Ala Ala 717 Ala Ala 717 Ala Ala 717 Ala Ala	64																	720
67 aca gcc acc cag atg gca cct ccg ggt ggt ccc cct gct gcc ccg cct 768 68 Thr Ala Thr Gln Met Ala Pro Pro Gly Gly Pro Pro Ala Ala Pro Pro 250 255 70 ggg ggt cgg cgc cac tcg cat cga gac cga atc cac tac cag gcc gat 816 71 Gly Gly Arg Gly His Ser His Arg Asp Arg Ile His Tyr Gln Ala Asp 260 260 265 270 73 gtg cga cta gag gcc act gag gag atc tac ctg acc cag gtg cag agg 265 270 270 73 gtg cga cta gag gcc act gag gag atc tac ctg acc cag gtg cag agg 265 270 270 73 gtg cga cta gag gcc act gag gac cac tcc gcc acc tcc gcc ccc agg gag ccc acc tcc gcc ccc act ggg gag ggg 285 286 76 ccc cca gac gct gca gag ccc acc tcc gcc ttc ctg ccg ccc act gag gag ggg 280 285 76 ccc cca gac gt gca gag ccc acc tcc gcc ttc ctg ccg ccc act gag gag ggg 295 300 79 agc cgg at tca gt cag tca gac ccc acc tcc gcc tcc dcc ccc dcc dcc dcc gag gag ccg ccg acc acc gag ccg gcc gcc	65	Pro	Thr	Thr	Asp	Arg	Gly	Thr	Ser	Thr	Asp	Ser	Pro	Cys	Arg	Arg	Ser	
68	66																	
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70 ggg ggt cgg ggc cac tcg cat cga gac cga atc cac tac cag gcc gat 816 71 Gly Gly Arg Gly His Ser His Arg Asp Arg Ile His Tyr Gln Ala Asp 265 270 73 gtg cga cta gag gcc act gag gag atc tac ctg acc cca gtg cag agg 864 74 Val Arg Leu Glu Ala Thr Glu Glu Ile Tyr Leu Thr Pro Val Gln Arg 285 76 ccc cca gac gct gca gag ccc acc tcc gcc ttc ctg ccc ccc act gag 912 77 Pro Pro Asp Ala Ala Glu Pro Thr Ser Ala Phe Leu Pro Pro Thr Glu 290 295 78 290 295 300 285 79 agc cgg atg tca gtc agc tcc gac tcc gcc ttc ctc ctc ccc act gag 912 78 290 295 300 295 79 agc cgg atg tca gcc acc ccc tcc gcc tcc act gcc gcc tac ccc tcc 960 80 Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala Tyr Pro Ser 315 320 82 acg gca ggc gg cgc cac ccc tcc act agg gag gag gag gag gg ttc 1008 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Glu Glu Gly Phe 330 335 85 gac tgc ctg tcg tcg ccg ccc cca ccc ccc cca gg gcg gg gg gg tgg tgg la ccg ccg ccc cca ccc ccc cca gg ccc cca ccc c	68	Thr	Ala	Thr	Gln	Met	Ala	Pro	Pro	Gly	Gly	Pro	Pro	Ala	Ala		Pro	
The series of	69					245					250					255		
72 260 265 270 73 gtg cga cta gag gcc act gag gag atc tac ctg acc cca gtg cag agg 864 74 Val Arg Leu Glu Ala Thr Glu Glu Ile Tyr Leu Thr Pro Val Gln Arg 285 75 275 280 285 76 ccc cca gac gct gca gag ccc acc tcc gcc ttc ctg ccg ccc act gag 912 77 Pro Pro Asp Ala Ala Glu Pro Thr Ser Ala Phe Leu Pro Pro Thr Glu 290 79 agc cgg atg tca gtc agc agc ccg cac ccc gac ccc gcc ccc act ccc tcc 960 80 Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Asp Pro Ala Ala Tyr Pro Ser 310 81 305 310 315 320 82 acg gca ggg cgg ccg cac ccc tcc atc atc agt gag gag gag gag ggg ttc 1008 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Glu Pro Pro Ser Jle Ser Glu Glu Glu Glu Gly Phe 325 335 85 gac tgc ctg tcg tcg ccc cca gag cgg gct gcc ccc acc gg ggg ggg tgg 1056 366 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 340 345 88 cgg ggg agc ctg ggg gag ccg ccc cca cct cca cgg gcc tct ctc tg agc 104 365 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac	70																	816
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74 Val Arg Leu Glu Ala Thr 275 Glu Glu Ala Thr 280 The Tyr Leu Thr Pro Val Gln Arg 285 Pro Val Gln Arg 285 76 ccc cca gac gct gca gag ccc acc tcc gcc ttc ctg ccg ccc act gag 912 77 Pro Pro Asp Ala Ala Glu Pro Thr Ser Ala Phe Leu Pro Pro Thr Glu 295 300 78 290 295 300 79 agc cgg atg tca gtc agc tcc gat cca gac cct gcc gcc tac ccc tcc 860 960 80 Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala Tyr Pro Ser 315 320 81 305 310 315 320 82 acg gca ggg cgg ccg cac ccc tcc atc atc agt gaa gag gag ggc ttc 1008 310 320 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Glu Gly Phe 325 330 335 85 gac tgc ctg tcg tcg tcc cca gag cgg ggc gg gcc cca ccc cca ggc gga ggg tgg 1056 340 335 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Pro Pro Gly Gly Gly Trp 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca ccc	72				260					265					270			
75	73	gtg	cga	cta	gag	gcc	act	gag	gag	atc	tac	ctg	acc	cca	gtg	cag	agg	864
76 ccc cca gac gct gca gag ccc acc tcc gcc ttc ctg ccg ccc act gag 912 77 Pro Pro Asp Ala Ala Glu Pro Thr Ser Ala Phe Leu Pro Pro Thr Glu 290 295 300 79 agc cgg atg tca gtc agc tcc gat cca gac cct gcc gcc tac ccc tcc 960 80 Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala Tyr Pro Ser 315 320 81 305 310 315 320 82 acg gca ggg cgg ccg cac ccc tcc atc act agt gaa gag gaa gag ggc ttc 1008 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Gly Phe 335 335 84 325 330 335 335 85 gac tgc ctg tcg tcc cca gag cgg gct gag ccc cca ggc gga ggg tgg 1056 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca ccg ccg cca cct cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gcc gcc gcc tgc ttc 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr	74	Val	Arg	Leu	Glu	Ala	Thr	Glu	Glu	Ile	Tyr	Leu	Thr	Pro	Val	Gln	Arg	
77 Pro Asp Ala Ala Ala Glu Pro Thr Ser Ala Phe Leu Pro Pro Pro Pro Thr Glu 300 78 290 295 300	75			275					280					285				
78 290 295 300 79 agc cgg atg tca gtc agc tcc gat cca gac cct gcc gcc tac ccc tcc 960 80 Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala Tyr Pro Ser 315 320 81 305 310 315 320 82 acg gca ggg cgg ccg cca ccc ccc tcc atc agt gaa gag gaa gag ggc ttc 1008 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Gly Phe 325 335 85 gac tgc ctg tcg tcc cca gag cgg gct gag ccc cca ggc ggg ggg tgg 330 335 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Pro Gly Gly Gly Trp 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg ccg cca cct cca cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gca agt tac acg ctg gtg 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 370 375 380 94 gta gat g	76																	912
79 agc cgg atg tca gtc agc tcc gat cca gac cct gcc gcc tac ccc tcc 960 80 Ser Arg Met Ser Val Ser Ser Asp Pro Asp Pro Ala Ala Tyr Pro Ser 305 310 315 320 81 305 310 315 320 320 82 acg gca ggg cgg ccg cac ccc tcc atc atc agt gaa gag gaa gag ggc ttc 1008 1008 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Gly Phe 330 335 85 gac tgc ctg tcg tcc cca gag cgg gct gag ccc cca ggc gga ggg tgg 1056 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Pro Gly Gly Gly Trp 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca cct cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg gtg agc ctg cgg ccg tgc ttc 1200 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395	77	Pro	Pro	Asp	Ala	Ala	Glu	Pro	Thr	Ser	Ala	Phe	Leu	Pro	Pro	Thr	${ t Glu}$	
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81	79																	960
82 acg gca ggg ccg ccg cac ccc tcc atc agt gaa gag gaa gag ggc ttc 1008 83 Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Gly Phe 325 330 335 85 gac tgc ctg tcg tcc cca gag cgg gct gag ccc cca ggc gga ggg tgg 1056 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 370 375 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg ctg ccg tcg tcc 1200 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390	80	Ser	Arg	Met	Ser	Val	Ser	Ser	Asp	Pro	Asp	Pro	Ala	Ala	Tyr	Pro	ser	
Thr Ala Gly Arg Pro His Pro Ser Ile Ser Glu Glu Glu Glu Gly Phe 325 330 335 85 gac tgc ctg tcg tcc cca gag cgg gct gag ccc cca ggc gga ggg tgg 1056 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 87 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 90 355 360 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 93 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395 400	81	305					310					315					320	
84 325 330 335 85 gac tgc ctg tcg tcg tcc cca gag cgg gct gag ccc cca ggc gga ggg tgg 1056 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 1200 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 385 400	82																	1008
85 gac tgc ctg tcg tcc cca gag cgg gct gag ccc cca ggc gga ggg tgg 1056 86 Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 340 345 350 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca cgg gcc tct ctg agc 1104 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Pro Arg Ala Ser Leu Ser 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 1152 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 1200 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 385 390 395 400	83	Thr	Ala	Gly	Arg	Pro	His	Pro	Ser	Ile	Ser	Glu	Glu	Glu	Glu	Gly	Phe	
Asp Cys Leu Ser Ser Pro Glu Arg Ala Glu Pro Pro Gly Gly Gly Trp 340 345 88 cgg ggg agc ctg ggg gag ccg ccg cca cct cca cgg gcc tct ctg agc Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Arg Ala Ser Leu Ser 350 89 Arg Gly Ser Leu Gly Glu Pro Pro Pro Pro Arg Ala Ser Leu Ser 360 365 91 tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg 92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 93 370 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 360 375 380 400	84					325					330					335		
87	85	gac	tgc	ctg	tcg	tcc	cca	gag	cgg	gct	gag	ccc	cca	ggc	gga	ggg	tgg	1056
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90	88	cgg	ggg	agc	ctg	ggg	gag	ccg	ccg	cca	cct	cca	cgg	gcc	tct	ctg	agc	1104
tcg gac acc agc gcc ctg tcc tat gac tct gtc aag tac acg ctg gtg Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395 400	89	Arg	Gly	Ser	Leu	Gly	Glu	Pro	Pro	Pro	Pro	Pro	Arg	Ala	Ser	Leu	Ser	
92 Ser Asp Thr Ser Ala Leu Ser Tyr Asp Ser Val Lys Tyr Thr Leu Val 93 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395 400	90			355					360					365				
93 370 375 380 94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 1200 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395 400	91	tcg	gac	acc	agc	gcc	ctg	tcc	tat	gac	tct	gtc	aag	tac	acg	ctg	gtg	1152
gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc yal Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 385 390 395 400	92	Ser	Asp	Thr	Ser	Ala	Leu	Ser	Tyr	Asp	Ser	Val	Lys	Tyr	Thr	Leu	Val	
94 gta gat gag cat gca cag ctg gag ctg gtg agc ctg cgg ccg tgc ttc 1200 95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395 400									-	-			_					
95 Val Asp Glu His Ala Gln Leu Glu Leu Val Ser Leu Arg Pro Cys Phe 96 385 390 395 400		qta		gag	cat	gca	cag	ctg	gag	ctg	gtg	agc	ctg	cgg	ccg	tgc	ttc	1200
96 385 390 395 400																		
			-													•		
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RAW SEQUENCE LISTING DATE: 01/14/2002 PATENT APPLICATION: US/09/966,561 TIME: 10:29:12

98	Gly A	Asp !	Tyr			Glu :	Ser A	Asp :			Thr v	Val '	ryr i			Cys	
99					405			~~~		410	-+-	~~~	~~~		415	~~~	1296
100					tcg												1296
101	Ата	ser	val		Ser	Pro	Tyr	GIU		Ala	тте	GIY	GIU		TAL	GIU	
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103					ccc												1344
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106					gac												1392
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128	ser	Asp	Trp	vai	Asp	GIII	Pne	Arg	val		Pne	ьеи	GTĀ	26T	575	GIII	
129	~++	~~~	+-+		565	~~~	+	~~ ~	at a	570	+~+	~a+	ac+	2+4		220	1776
130					aag												1776
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139	ant.				gag									+++	ttc	caσ	1920
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140	625	изр	per	0111	GIU	630	פעב	CIY	nen	د رب	635	001		. 110	1110	640	
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VERIFICATION SUMMARY
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